



After LM : NASA lunar lander concepts beyond Apollo /

Connolly, John F.
(NASA),
editor

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There is a reason why the Apollo LMs, and many of the subsequent lunar lander designs featured in this book, look the way they do - their shape and form is a response to the simple physics that governs the tasks they are asked to perform. Much of the lunar lander "design space" is determined by physics. Large tanks of propellant surrounded by structure, an attenuation system for landing, and a pressurized volume for crew habitation all directly address the physics of lander design. Those physics and engineering realities mean that the next lunar lander will most likely look like the big brother of the Apollo LM because the physics of lunar landing is unchanged, and technology has only improved marginally since Apollo. Not only did Apollo's designers understand the physics of the problem perfectly, they were very smart, especially given that they were inventing much of the technology for the first time. The Apollo LM is a logical starting point for this collection; however, the endpoint is a less exact point in time. The end-point of the concepts contained in this human lunar lander concept catalog is the final design of Altair in 2010

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Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es